CLAIMS

1. Electrohydraulic servo door drive for operating a door, a window, etc., with a hold-open function, where, to implement the hold-open function, a valve is provided in the hydraulic circuit, characterized in that the valve is designed as a hydraulically controlled hold-open valve (20).

2. Electrohydraulic servo door drive according to Claim 1, characterized in that the hold-open valve (20) consists of a 2/2-way directional control valve.

3. Electrohydraulic servo door drive according to Claim 1, characterized in that the 2/2-way directional control valve is designed as a lockable nonreturn valve.

4. Electrohydraulic servo door drive according to Claim 1, characterized in that the 2/2-way directional control valve is designed as a slide valve.

5. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the hold-open valve (20) has a control piston (22) and a nonreturn valve (23).

6. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that either the nonreturn valve (23) or the control valve (22) of the hold-open valve (20) or both are spring-loaded by one or more spring elements (26, 27).

7. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the pressure in the piston space (1) of the servo door drive is higher than the control pressure in the hold-open valve (20).

8. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the effective piston surface of the control piston (22) is larger than the sealing surface of the 2/2-way directional control valve.

9. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that a motor (7), designed as a DC motor, as an electronically commutated motor, or as a speed-controlled AC or 3-phase motor, is provided in the hydraulic circuit to drive a pump (6).

10. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the forward flow and the return flow of the hydraulic circuit are separated from each other.

11. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the nonreturn valve (23) is integrated into the control piston (22) of the hold-open valve (20).

12. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the nonreturn valve (23) is provided in a bypass (50) around the 2/2-way directional control valve.

13. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that throttle valves (16, 17) are provided in the hydraulic circuit to control the opening and/or closing movement.

14. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the hold-open valve (20) can be switched and/or controlled via the pressure of the pump (7).

15. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that a valve (28) is installed parallel to the hold-open valve (20) in such a way that the leakage flow at the control piston can be adjusted effectively in order to control the switching speed of the hold-open valve (20).

16. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the valve (28) has a closing body (29) acting on a spring (31), so that the valve (28) closes as a function of pressure and thus reduces the leakage flow which occurs during the opening process.

17. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that a valve (28) is provided between a hydraulic line (41) leading from the pump (6) and a hydraulic line (46) leading to the tank space (8).

18. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that an auxiliary device for performing a support function during the actuation of the door, window, etc., is provided.

19. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the auxiliary device has a motor amplifier (51) connected to the motor (7), especially an amplifier which operates according to the PWM principle.

20. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the motor amplifier (51) is connected to an controller and current regulator (52).

21. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the motor amplifier (51) and the controller and current regulator (52) are each connected to a voltage supply (55).

22. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the controller and current regulator (52) is connected to a position sensor (53), which cooperates with the pinion (5).

23. Electrohydraulic servo door drive according to one of the preceding claims, characterized in that the controller and current regulator (52) has a D/A converter (54).